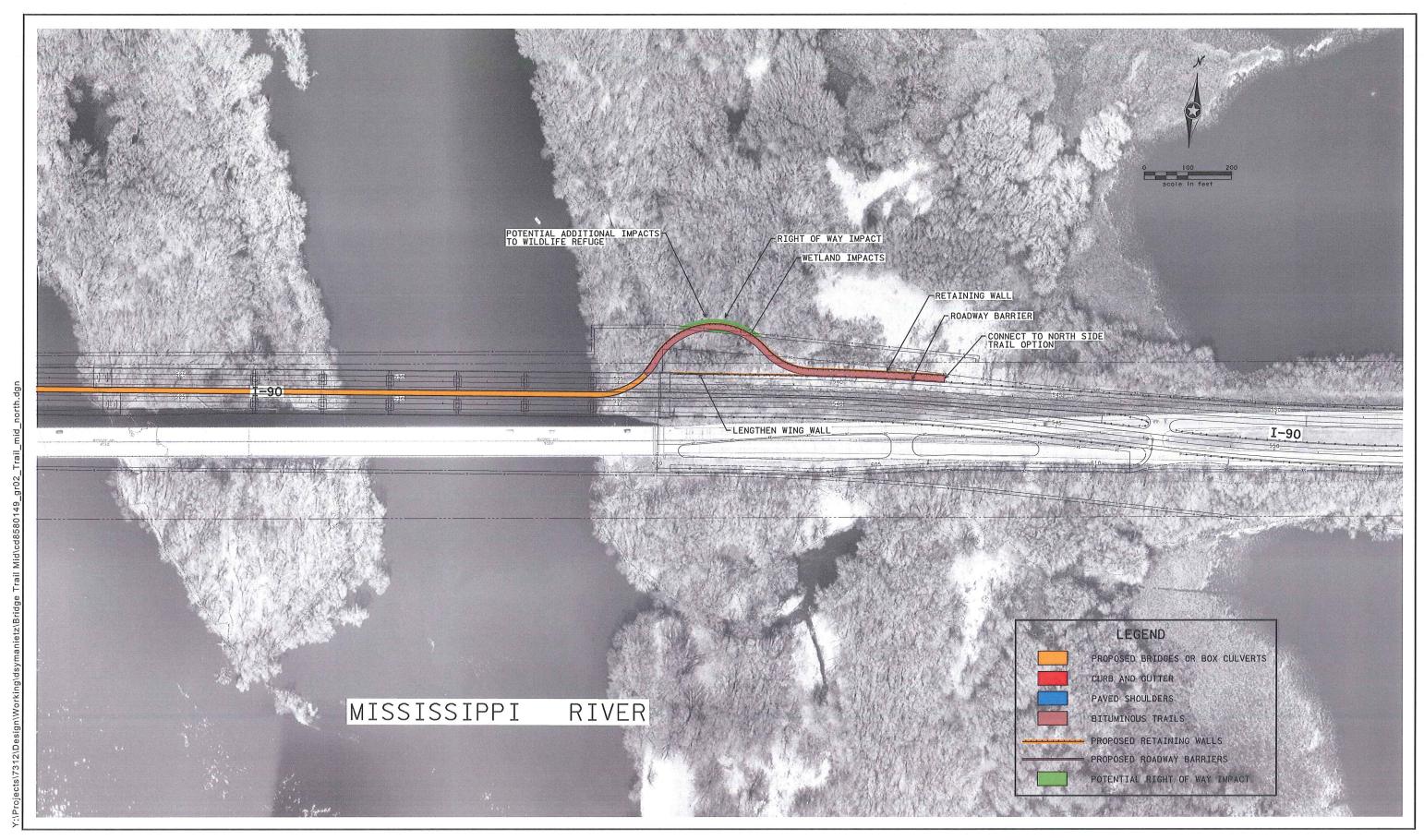


7312 10/4/2011



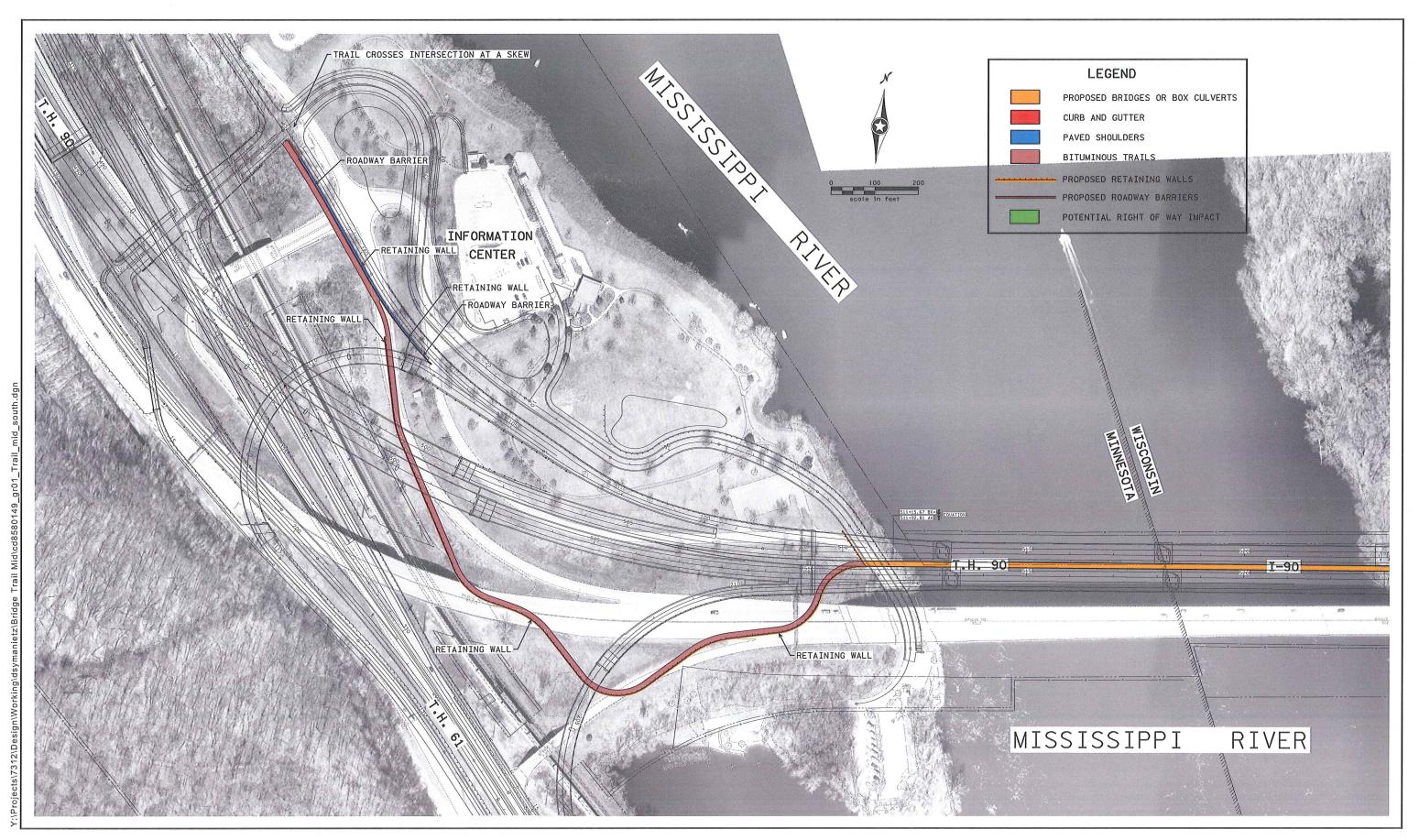


MN/WI BIKE TRAIL CONNECTION - MIDDLE-NORTH OPTION Concept Cost Estimate (based upon 2011 bid price information) Prepared By: SRF Consulting Group, Inc., 9/2011

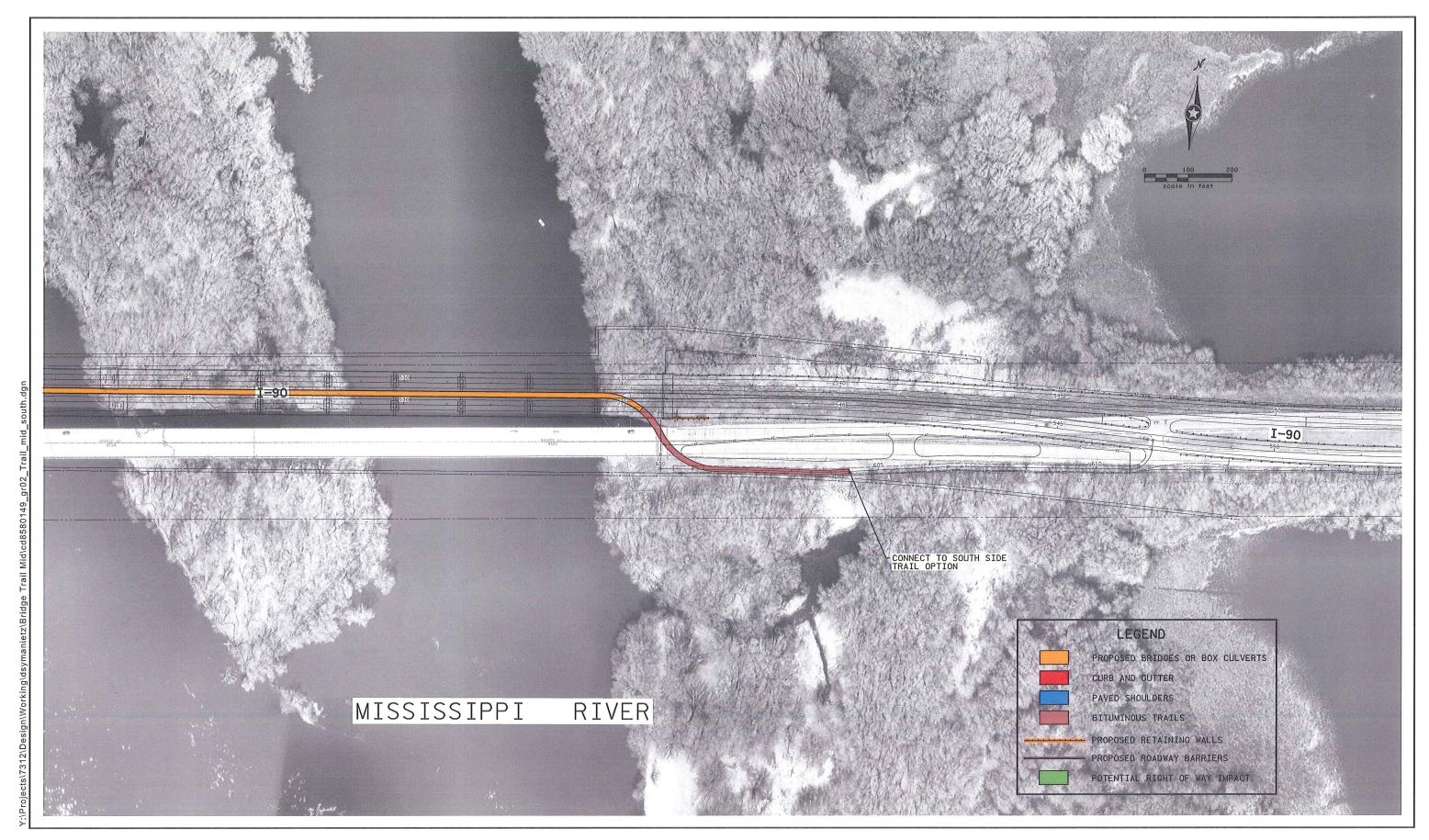
| | | | | 1 | repared by | . SKE CON | suiting Gro | oup, Inc., 9/2 | 2011 | | |
|---|------------|--|--------------------|------------------|------------------------|------------------------|---|------------------|--|------------------|--|
| | | | LIMITE | MINNE | | WISCONSIN (F TO RES | RIVER BRIDGE (AREA) | SCONSIN (REST | AREA TO EXI | T | OTAL |
| ITEM DESCRIPTION | | UNIT | UNIT PRICE | EST. QUANTITY | EST. AMOUNT | EST. QUANTITY | EST. AMOUNT | EST. QUANTITY | EST. AMOUNT | EST. QUANTITY | EST. |
| PAVING AND GRADING COSTS | | | | | | | | 497111111 | MINOOIAI | QUANTITY | AMOUNT |
| 1 Excavation - common & subgrade 2 Granular Borrow - Structural (CV) | | cu. yd. | \$6.00 | | | 4,700 | \$28 200 | 8,200 | \$40,000 II | 40.000 | |
| 3 Granular Subgrade (CV) | | cu. yd. | \$16.00 | 6,500 | \$104,000 | 14,000 | \$28,200 \$224,000 \$55,500 \$98,000 | 11,000 | \$49,200 \$176,000 \$97,500 \$171,500 | 12,900 31,500 | \$77,400 \$504,000 \$153,000 \$269,500 \$550,800 |
| 4 Mainline Shoulder Pavement | (1) | cu. yd. sg. yd. | \$15.00 \$35.00 | | | 3.700 | \$55,500 | 6,500 | \$170,000 | 31,500 | <u>\$504,000</u> |
| 3 Granular Subgrade (CV) 4 Mainline Shoulder Pavement 5 Bituminous Walk / Trail | (2) | sq. yd. | \$27.00 | 1,900 | \$51,300 | 2,800 7,500 | \$98,000 | 4,900 | \$171.500 | 10,200 7,700 | \$153,000 \$260,500 |
| 6 Concrete Curb and Gutter 7 Concrete Median Barrier (Permanent) | | lin. ft. | \$15.00 | 1,500 | ψ51,300 | 7,500 | \$202,500 | 11,000 | \$297,000 | 20,400 | \$550,800 |
| 8 Traffic Barrier | | lin. ft. | \$65.00 | | 2 ° | 4,600 | \$299,000 | 4.000 | 0070.000 | | |
| O Hallic Dalliel | | lin. ft. | \$20.00 | | | 4,000 | Ψ299,000 | 4,200 | \$273,000 | 8,800 | \$572,000 |
| SUBTOTAL PAVING AND GRADING COS | TO | | | | | | | 000 | \$16,000 | 800 | \$16,000 |
| | 15: | - a | 6 | | \$155,300 | | \$907,200 | | \$1,080,200 | | AC 110 |
| DRAINAGE, UTILITIES AND EROSION CONTROL | | | | | | | 7001,200 | | φ1,000,200 | | \$2,142,700 |
| 1 Drainage - urban | | 30% | | | \$47,000 | | £272.000 l | | | | |
| 2 Drainage - rural 3 Turf Establishment & Erosion Control | (3) | mile 10% | \$100,000 | | Ψ-17,000 | | \$272,000 | 4.00 | \$324,000 \$100,000 | | \$643,000 |
| 4 Landscaping | | 10% | | | \$16,000 | | \$91,000 | 1.00 | \$100,000 | 1 | \$100.000 |
| | | 2% | | | \$3,000 | | \$18,000 | | \$108,000 \$22,000 | | \$215,000 |
| SUBTOTAL DRAINAGE, UTILITIES AND | =ROSIO | N CONTROL | | | \$66,000 | | \$381,000 | | | | \$43,000 |
| BRIDGE COSTS | | | | | | | Ψ001,000 | | \$554,000 | | \$1,001,000 |
| 1 Bridge - Widening of Round Lake Bridge | | sq. ft. | \$200 | | | 12,000 | 00 400 000 I | | | | |
| 2 Bridge - Widening of French Slough Bridge 3 Bridge - Widening of Black River Bridge | | sq. ft. | \$200 \$200 | | | 4,900 | \$2,400,000 | | | 12,000 | \$2,400,000 |
| 3 Ibridge - Widening of Black River Bridge | | sq. ft. | \$200 | | | 4,900 | \$980,000 | 15,300 | 00.000.000 | 4,900 15,300 | \$980,000 |
| SUBTOTAL BRIDGE COSTS: | | | Į. | | | | \$3,380,000 | 15,300 | \$3,060,000 | 15,300 | \$980,000 \$3,060,000 |
| RETAINING WALLS & OTHER MINOR STRUCTUR | RAL CO | STS | | | | | \$3,300,000 | | \$3,060,000 | | \$6,440,000 |
| 1 Box Culvert - Under CTH B 2 CIP Ret. Walls 5' high (50' pile foundation) | | sq. ft. | \$200 | | | | | | | | |
| 2 CIP Ret. Walls 5' high (50' pile foundation) | (4) | lin. ft. | \$600 | 1,400 | 000 008 | 800 | 0.400.000 | 2,100 | \$420,000 \$360,000 | 2.100 | \$420,000 |
| 3 CIP Ret. Walls 10' high (50' pile foundation) 4 CIP Ret. Walls 15' high (50' pile foundation) 5 CIP Ret. Walls 20' high (50' pile foundation) | (4) | lin. ft. | \$800 | 300 | \$840,000 \$240,000 | 3,800 | \$480,000 \$3,040,000 | 600 | \$360,000 | 2,100 2,800 | \$420,000 \$1,680,000 \$5,680,000 |
| 4 CIP Ret. Walls 15 high (50' pile foundation) | (4) | lin. ft. | \$1,200 | 200 | \$240,000 | 3,000 | <u>\$3,040,000</u> | 3,000 | \$2,400,000 | 7.100 | \$5,680,000 |
| 5 CIP Ret. Walls 20' high (50' pile foundation) 6 CIP Ret. Walls 25' high (50' pile foundation) 7 CIP Ret. Walls 25' high (50' pile foundation) | (4) | lin. ft. | \$1,750 | 150 | \$262,500 | | | | | 200 150 | \$240,000 |
| 7 ICIP Ret Walls 30' high (50' pile foundation) | (4) | lin. ft. | \$2,400 | 40 | \$96,000 | | | | | | \$262,500 |
| 8 Ret. Walls Architectural Treatments (normal) | (4) | lin. ft. sq. ft. | \$3,000 \$15 | 40 | \$120,000 \$273,000 | | | | | 40 | \$240,000 \$262,500 \$96,000 \$120,000 |
| SUBTOTAL RETAINING WALLS & OTHER | | 2 STOLICTUD | AL COOTO | 18,200 | | 42,000 | \$630,000 | 33,000 | \$495,000 | 93,200 | \$1,398,000 \$1,398,000 |
| TO THE REPAINING WALLOW OTHER | V IVIIIAOT | SIKUCIUK | AL CUS15: | | \$2,071,500 | | \$4,150,000 | | \$3,675,000 | 00,200 | |
| | | | | | | - | | | φο,στο,σσσ | | \$9,896,500 |
| SUBTOTAL CONSTRUCTION COSTS: | | | | | \$2,292,800 | | ¢9 949 200 | | A | | 5 |
| | | | | | Ψ=,=02,000 | | \$8,818,200 | | \$8,369,200 | le: | \$19,480,200 |
| MISCELLANEOUS COSTS | | | | | | | | | | | , , , , , , , , |
| 1 Mobilization | | F0/ | n | | | | | | | | |
| 2 Non Quantified Minor Items | | 5% 10% | | | \$115,000 | | \$441,000 | | \$/12 000 | | 0071 |
| 3 Traffic Control | | 5% | | | \$229,000 \$115,000 | | \$441,000 \$882,000 | | \$418,000 \$837,000 | | \$974,000 \$1,948,000 |
| | | 370 | | | \$115,000 | | \$441,000 | | \$418,000 | | \$1,948,000 \$974,000 |
| SUBTOTAL MISCELLANEOUS COSTS: | | | | | #450.000 | | | | | | \$974,000 |
| | 1.5 | | | | \$459,000 | | \$1,764,000 | | \$1,673,000 | | \$3,896,000 |
| ESTIMATED TOTAL CONSTRUCTION COSTS with | out Con | itingency: | | | \$2,751,800 | | \$10,582,200 | | | | |
| 1 Contingency or "risk" | | 30% | | | | | | | \$10,042,200 | | \$23,376,200 |
| ESTIMATED TOTAL CONSTRUCTION COSTS PLU | 0.001 | THE RESERVE TO SECURITION AND ADDRESS OF THE PARTY OF THE | | | \$826,000 | | \$3,175,000 | 8 | \$3,013,000 | | \$7,014,000 |
| LOTIMATED TOTAL CONSTRUCTION COSTS PLU | S CONT | INGENCY: | | | \$3,577,800 | - | \$13,757,200 | | \$13,055,200 | | |
| | | | | | | | , , | | Ψ13,000,200 | | \$30,390,200 |

DOES NOT INclude River Bridge Costs

NOTE (1) Includes aggregate base class 5 and PASB or OGAB, as appropriate.
(2) Includes aggregate base class 5.
(3) Does not include pavement edge drains, see separate item.
(4) Assumes 50' Piled Foundations & Mn/DOT Standard Plan Sheet designs; does not include excavation or backfill.



7312 10/4/2011



Y:\Projects\7312\Design\CostEstimates\Bridge Trail Concept Estimates\BridgeTrail_Middle-South_ConceptCostEst_WISplits.xls

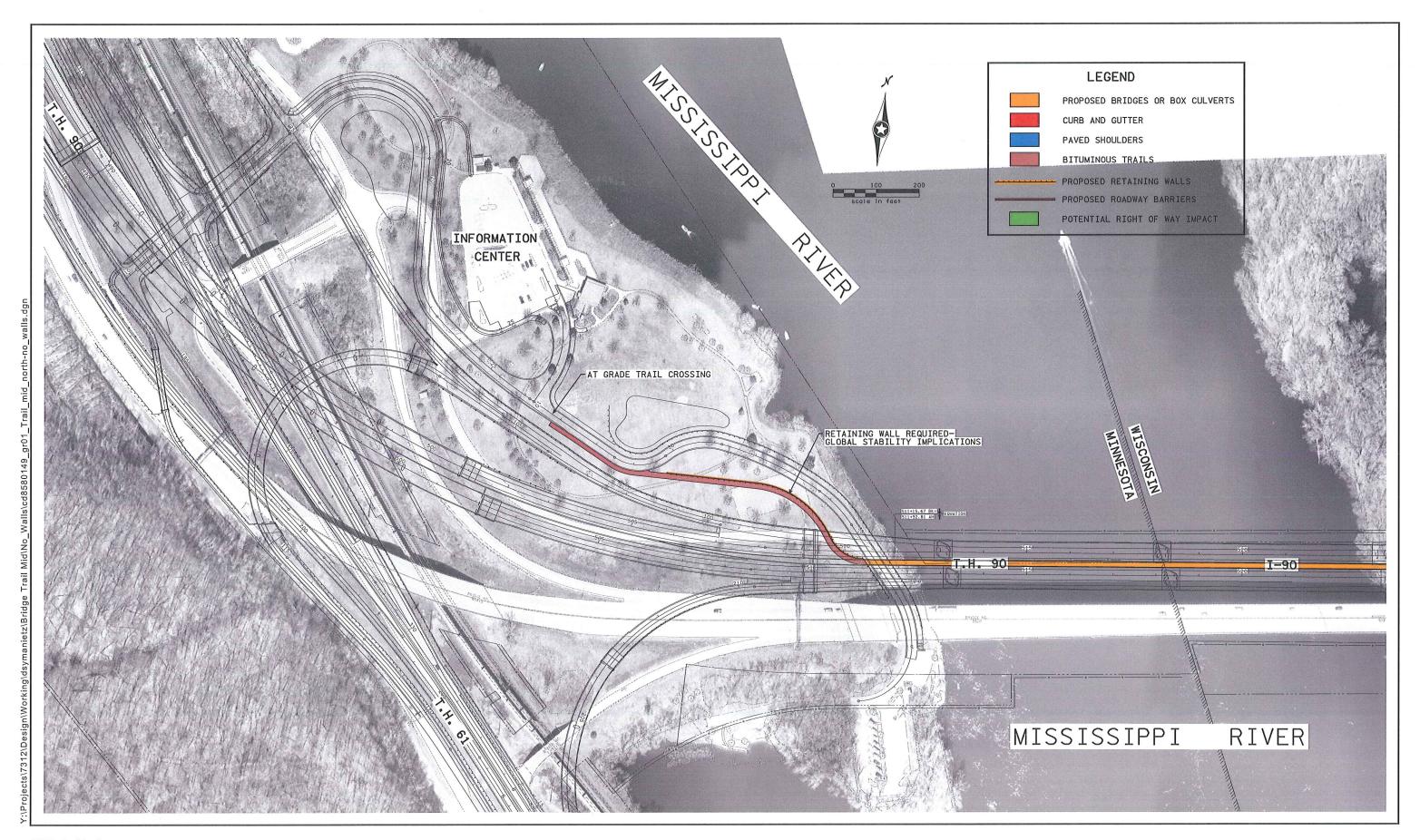


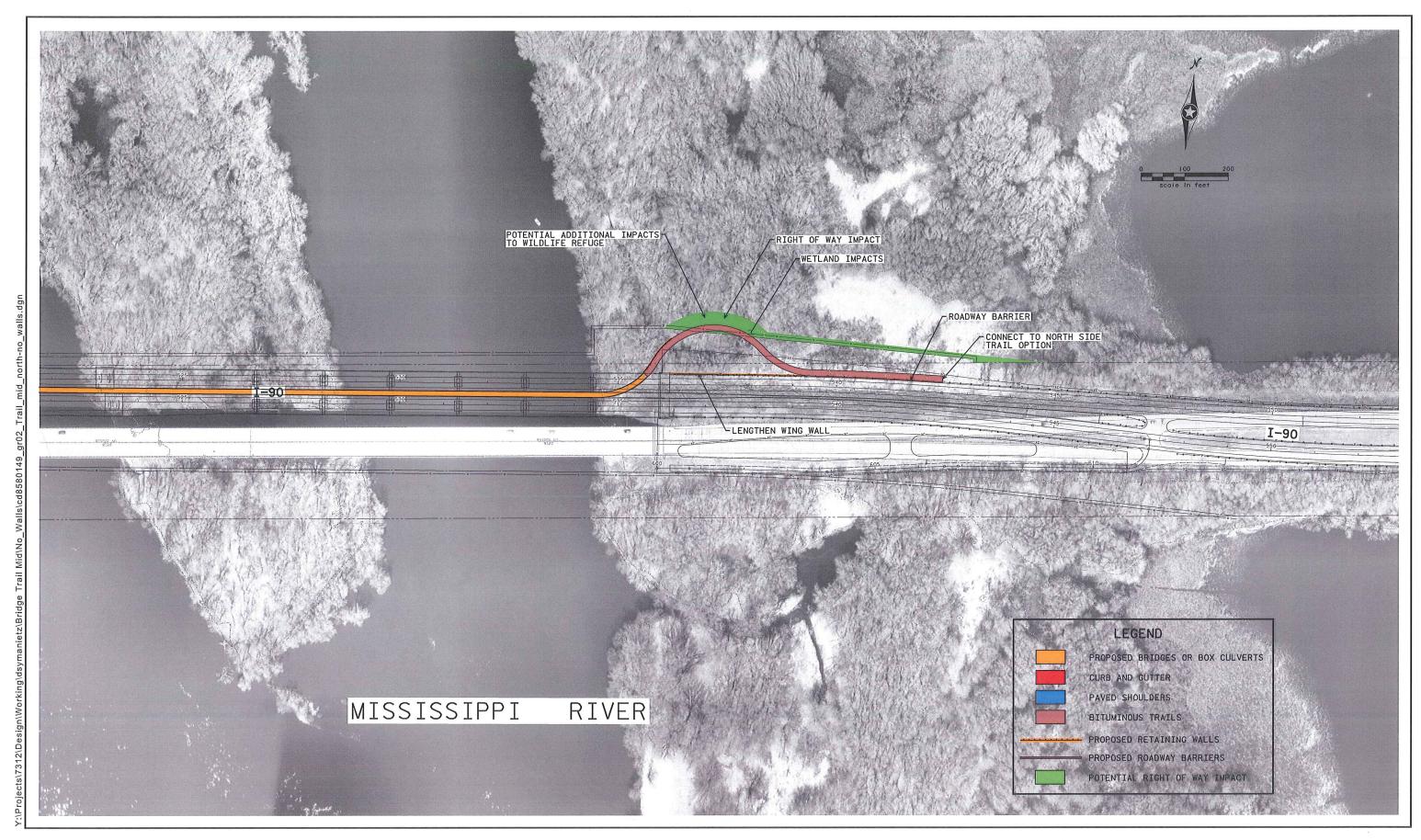
MN/WI BIKE TRAIL CONNECTION - MIDDLE-SOUTH OPTION Concept Cost Estimate (based upon 2011 bid price information) Prepared By: SRF Consulting Group, Inc., 9/2011

| SUBTOTAL PAVING AND GRADING COSTS: \$301,200 \$734,100 \$999,300 \$2,025,600 | ricpared by: Orli Consulting Group, inc., 9/2011 | | | | | | | | | | |
|--|--|----------------|----------------|---------------------------------------|--------------------------|----------|--|-------------------------|-----------------------|----------|-----------------------|
| TEM DESCRIPTION | | | | MINNE | SOTA | | | WISCONSIN (REST AREA TO | | | |
| ITEM DESCRIPTION | | | | | | TO REST | AREA) | EXIT 3) | | IOTAL | |
| TITLEW DESCRIPTION | ITEM DECORDED ON | | | | 50-0 -51 GH 546 | EST. | EST. | EST. | EST. | EST. | EST. |
| PAYING AND GRADING COSTS 1.000 4.700 526,200 6.700 540,200 1.500 5.71,400 3.000 3. | | UNIT | PRICE | QUANTITY | AMOUNT | QUANTITY | AMOUNT | | | 7.87.109 | |
| Canada Borrow Suppred (CV) | | | | | | | | | | 40711111 | AWOUNT |
| Standard Subgrape (CV) | 1 Excavation - common & subgrade | | \$6.00 | 500 | \$3,000 | 4,700 | \$28,200 | 6,700 | \$40,200 | 11.900 | \$71 400 |
| Concrete Curb and Gutter | 3 Granular Subgrade (CV) | | \$16.00 | 12,100 | \$193,600 \$5,600 | 9,400 | \$150,400 | 9,400 | \$150,400 | 30 000 | \$494,400 |
| Concrete Curb and Gutter | 4 Mainline Shoulder Pavement | (1) sq. yd. | \$35.00 | 300 | \$10.500 | 2.800 | \$98,000 \$98,000 | 5,300 | \$74,200 | 9,400 | \$131,600 |
| SUBTOTAL PAVING AND GRADING COSTS: \$301,200 \$734,100 \$999,300 \$2,025,600 | 5 Bituminous Walk / Trail 6 Concrete Curb and Gutter | 2 / | \$27.00 | 2,500 | \$67,500 | 6,600 | \$178,200 | 12,500 | \$337,500 | 21,600 | \$583,200 |
| SUBTOTAL PAVING AND GRADING COSTS: \$301,200 \$734,100 \$999,300 \$2,025,600 | 7 Concrete Median Barrier (Permanent) | lin, ft. | \$65.00 | 300 | \$1,500 | 3 500 | \$227 500 | 700 | \$10,500 | 800 | \$12,000 |
| SUBTOTAL PAVING AND GRADING COSTS: \$301,200 \$734,100 \$990,300 \$2,025,600 | 8 Traffic Barrier | lin. ft. | \$20.00 | 000 | ψ10,000 | 5,500 | \$227,500 | 5,500 | \$227,500 \$10,000 | 7,300 | \$474,500 \$10,000 |
| RATION Sept. Sep | SUPTOTAL BAVING AND CRAPING COSTS | | | | | | | 000 | Ψ10,000 | 300 | Φ10,000 |
| Designate - urban September Septembe | |): | | | \$301,200 | | \$734,100 | | \$990,300 | | \$2,025,600 |
| Displace - Lural 3 mile \$100,000 \$20,000 \$73,000 \$15,0 | | 000/ | | | | | | | | | , , |
| Landscaping 36,000 \$300,000 \$300,000 \$300,000 \$31,000 | 2 Drainage - rural | (3) mile | \$100,000 | | \$90,000 | | \$220,000 | 1.5- | \$297,000 | | \$607,000 |
| SUBTOTAL DRAINAGE, UTILITIES AND EROSION CONTROL \$126,000 \$303,000 \$516,000 \$950,000 | 3 Turf Establishment & Erosion Control | 10% | Ψ100,000 | | \$30,000 | | \$73,000 | 1.00 | \$100,000 | 1 | \$100,000 |
| BRIDGE COSTS 1 12 200 | | | | | \$6,000 | | \$15,000 | | \$20,000 | | \$202,000 \$41,000 |
| BRINGE COSTS 12,000 \$2,400,000 12,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,400,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000,000 2,000 \$2,000 | | OSION CONTROL | | | \$126,000 | | | 8 | | | |
| Bridge - Widening of French Slough Bridge sq. ft \$200 \$20000 \$220,000 \$3,100,000 \$ | | | 2 | | | | | | | | 4000,000 |
| SUBTOTAL BRIDGE COSTS: \$2,920,000 \$2,920,000 \$3,100,000 \$6,020,000 \$4,0000 \$4, | 1 Bridge - Widening of Round Lake Bridge 2 Bridge - Widening of French Slough Bridge | sq. ft. | \$200 | | | 12,000 | \$2,400,000 | and the later of the | | 12.000 | \$2,400,000 |
| SUBTOTAL BRIDGE COSTS: \$2,920,000 \$2,920,000 \$3,100,000 \$6,020,000 \$4,0000 \$4, | 3 Bridge - Widening of Black River Bridge | Sq. It. | \$200 \$200 | | | 2,600 | \$520,000 | 45 500 | 00.400.000 | 2,600 | \$520,000 |
| RETIMING WALLS & OTHER MINOR STRUCTURAL COSTS Science Scienc | | 99/14 | \$200 | | | | \$2,920,000 | 15,500 | | 15,500 | \$3,100,000 |
| Box Culvert - Uncler CTH B S200 S420,000 S420,0 | RETAINING WALLS & OTHER MINOR STRUCTURAL COSTS | | | | | | ΨΖ,3Ζ0,000 | | \$3,100,000 | | \$6,020,000 |
| 3 CIP Ret, Walls 10 Find (50 pile foundation) | 1 Box Culvert - Under CTH B | | \$200 | | | | | 2 100 | \$420,000 II | 0.400 | # 400 000 |
| S CIP Ret. Walls 20 high (50 pile foundation) (4) lin. ft. \$1750 700 \$175,000 100 100 \$175,000 100 | 2 CIP Ret. Walls 5' high (50' pile foundation) | 4) lin. ft. | \$600 | 200 | \$120,000 | 1,000 | \$600,000 | 1.000 | \$600,000 | 2,100 | \$420,000 |
| S CIP Ret. Walls 20 high (50 pile foundation) (4) lin. ft. \$1750 700 \$175,000 100 100 \$175,000 100 | 4 CIP Ret. Walls 15' high (50' pile foundation) | | \$800 | | \$960,000 | 2,400 | \$1,920,000 | | \$1,920,000 | 6,000 | \$4,800,000 |
| Ci Ret. Walls 30 high (50 pile foundation 4) 111. 11. 11. 12. 40 40 \$95,000 | 5 CIP Ret. Walls 20' high (50' pile foundation) | 4) lin. ft. | \$1,750 | | \$175,000 | | | | | 500 l | \$600.000 |
| SUBTOTAL CONSTRUCTION COSTS: \$2,441,500 \$2,955,000 \$3,375,000 \$8,771,500 | Left CIP Ret. Walls 25' high (50' pile foundation) 1 (| 4) lin. ft. | \$2,400 | 40 | \$96,000 | | | | | 40 | \$175,000 \$96,000 |
| SUBTOTAL CONSTRUCTION COSTS: \$2,441,500 \$2,955,000 \$3,375,000 \$8,771,500 | 8 Ret. Walls Architectural Treatments (normal) | | | | \$120,000 \$370,500 | 20,000 | 0.405.000 | 00.000 | | 40 | \$120,000 |
| SUBTOTAL CONSTRUCTION COSTS: \$2,868,700 \$6,917,100 \$7,981,300 \$17,767,100 | | INOR STRUCTURA | AL COSTS: | 24,700 | \$370,500 \$2,441,500 | 29,000 | | 29,000 | | 82,700 | \$1,240,500 |
| MISCELLANEOUS COSTS | | | | | ΨΖ,441,300 | | \$Z,955,000 | | \$3,375,000 | | \$8,771,500 |
| MISCELLANEOUS COSTS | SUBTOTAL CONSTRUCTION COSTS: | | | | ¢0.000.700 | | ************************************** | | | | |
| 1 Mobilization 5% \$143,000 \$346,000 \$399,000 \$888,000 2 Non Quantified Minor Items 10% \$287,000 \$692,000 \$798,000 \$1,777,000 3 Traffic Control \$143,000 \$346,000 \$399,000 \$1,777,000 SUBTOTAL MISCELLANEOUS COSTS: \$573,000 \$1,384,000 \$1,596,000 \$3,553,000 ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: \$3,441,700 \$8,301,100 \$9,577,300 \$21,320,100 I Contingency or "risk" 30% \$1,033,000 \$2,490,000 \$2,873,000 \$6,396,000 | CODICIAL CONCINCOTION COOTS. | | | | \$2,868,700 | | \$6,917,100 | | \$7,981,300 | | \$17,767,100 |
| 1 Mobilization 5% \$143,000 \$346,000 \$399,000 \$888,000 2 Non Quantified Minor Items 10% \$287,000 \$692,000 \$798,000 \$1,777,000 3 Traffic Control \$143,000 \$346,000 \$399,000 \$1,777,000 SUBTOTAL MISCELLANEOUS COSTS: \$573,000 \$1,384,000 \$1,596,000 \$3,553,000 ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: \$3,441,700 \$8,301,100 \$9,577,300 \$21,320,100 I Contingency or "risk" 30% \$1,033,000 \$2,490,000 \$2,873,000 \$6,396,000 | MISCELL ANEOUS COSTS | | | | | | - | | | | |
| 3 Traffic Control 5% \$143,000 \$346,000 \$346,000 \$399,000 \$888,000 \$888,000 \$1,596,000 \$3,553,000 \$1,000 \$1,596,000 \$1,596,000 \$1,596,000 \$1,596,000 \$1,000 \$ | | E0/ | | | Φ4.40.000 II | | | | | | |
| 3 Traffic Control 5% \$143,000 \$346,000 \$346,000 \$399,000 \$888,000 | 2 Non Quantified Minor Items | 10% | | | \$287,000 | | \$346,000 | | \$399,000 | | \$888,000 |
| SUBTOTAL MISCELLANEOUS COSTS: \$573,000 \$1,384,000 \$1,596,000 \$3,553,000 ESTIMATED TOTAL CONSTRUCTION COSTS BLUS CONTINGENCY: \$3,441,700 \$8,301,100 \$9,577,300 \$2,873,000 \$6,396,000 ESTIMATED TOTAL CONSTRUCTION COSTS BLUS CONTINGENCY: \$4,474,700 \$4,474,700 \$4,574,100 \$6,396,000 | 3 Traffic Control | 5% | | | \$143,000 | | \$346,000 | | \$399,000 | - | \$1,777,000 |
| ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: \$3,553,000 \$1,396,000 \$3,553,000 1 Contingency or "risk" \$30% \$1,033,000 \$2,490,000 \$2,873,000 \$6,396,000 ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CONTINGENCY: \$4,474,700 \$4,474,700 \$4,574,100 \$6,396,000 | SURTOTAL MISCELLANEOUS COSTS | | | | | | | | | 2) | Ψ000,000 |
| ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: \$3,441,700 \$8,301,100 \$9,577,300 \$21,320,100 \$1,033,000 \$2,490,000 \$2,873,000 \$6,396,000 \$6,396,000 \$1,037,000 | | | | | | | \$1,384,000 | | \$1,596,000 | | \$3,553,000 |
| 1 Contingency or "risk" 30% \$1,033,000 \$2,490,000 \$2,873,000 \$6,396,000 \$6,396,000 | | | | | \$3,441,700 | | \$8,301,100 | | \$9,577,300 | | |
| ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CONTINGENCY: | | | | | \$1,033,000 | | \$2,490,000 | <u> </u> | \$2,873,000 | | |
| | ESTIMATED TOTAL CONSTRUCTION COSTS PLUS | | \$4,474,700 | · · · · · · · · · · · · · · · · · · · | \$10,791,100 | · | \$12,450,300 | 1 | \$27,716,100 | | |

NOTE (1) Includes aggregate base class 5 and PASB or OGAB, as appropriate.
(2) Includes aggregate base class 5.
(3) Does not include pavement edge drains, see separate item.
(4) Assumes 50' Piled Foundations & Mn/DOT Standard Plan Sheet designs; does not include excavation or backfill.

DOES NOT Include River Bridge Costs





Y:\Projects\7312\Design\CostEstimates\Bridge Trail Concept Estimates\Fewer Retaining Walls\BridgeTrail_Middle-North_ReducedWalls_ConceptCostEst_WISplits.xls

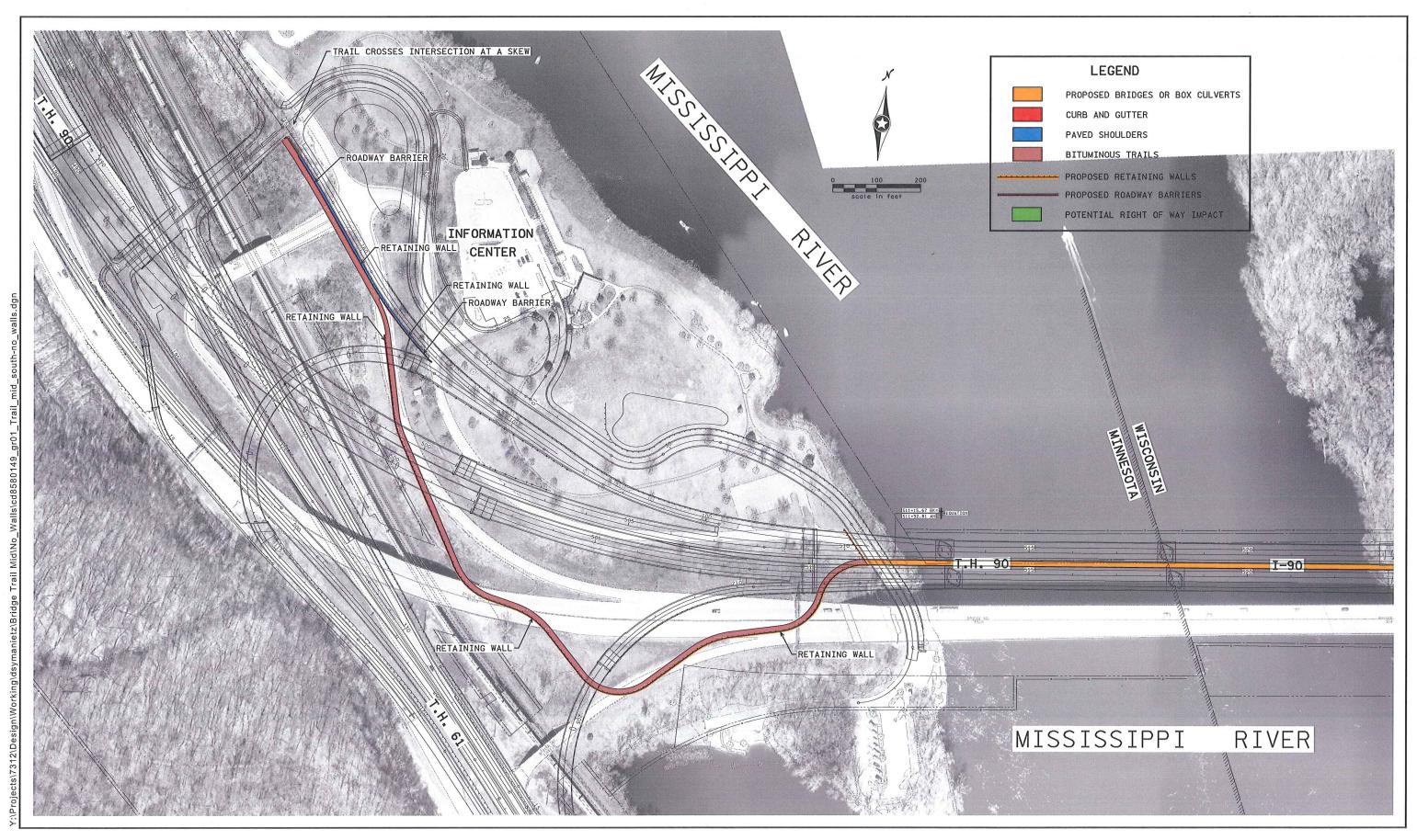


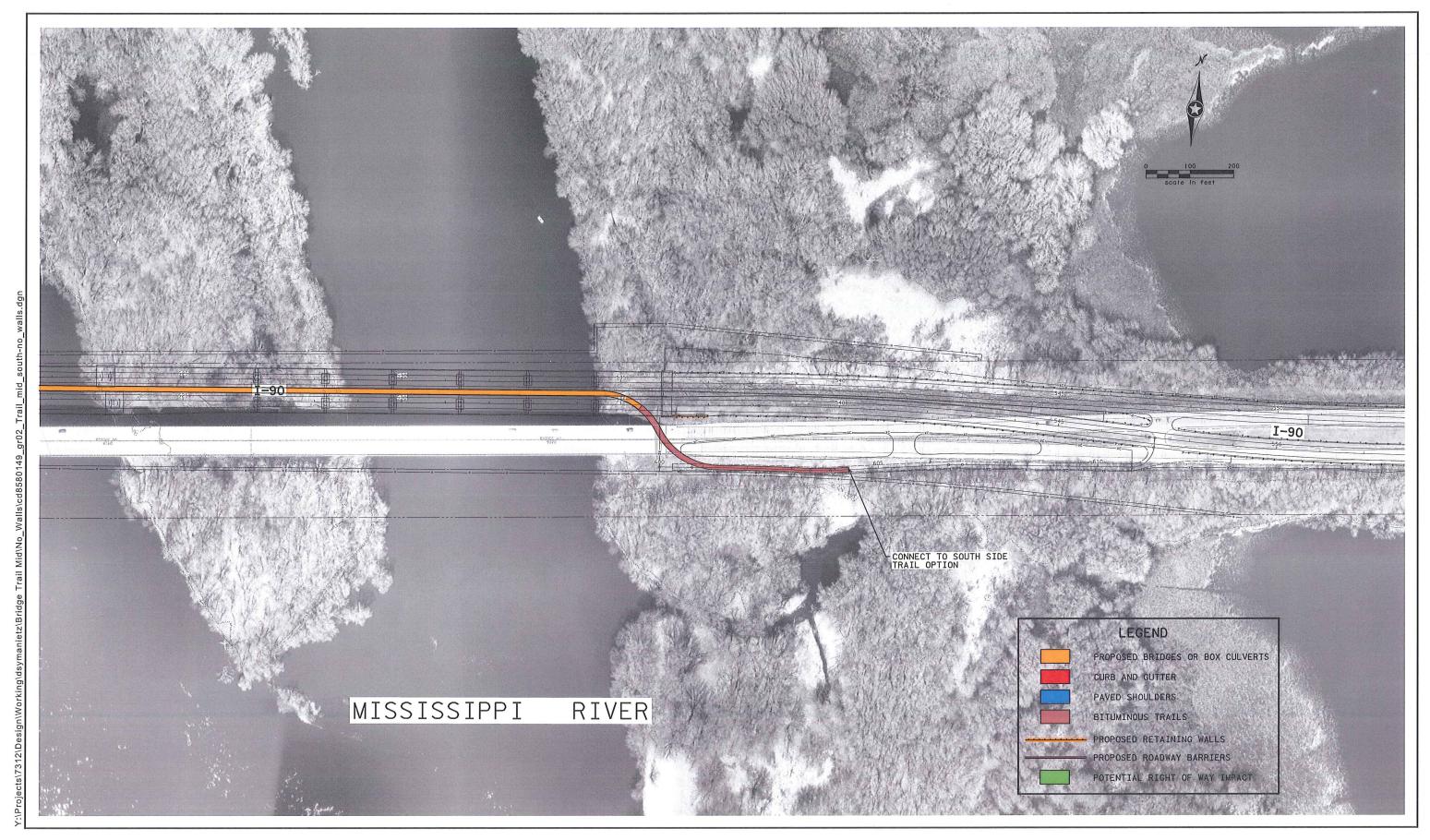
MN/WI BIKE TRAIL CONNECTION - MIDDLE-NORTH OPTION - REDUCED WALLS Concept Cost Estimate (based upon 2011 bid price information)

Prepared By: SRF Consulting Group, Inc., 9/2011

| I e | | | MINNE | SOTA | | | WISCONSIN (REST AREA TO | | TOTAL | |
|---|-------------------------------|--------------------|------------|------------------------|-----------------|------------------------|-------------------------|--|-------------------------------------|--|
| | | LIMIT | ECT FOT | | TO REST AREA) | | EXIT 3) | | | |
| ITEM DESCRIPTION | UNIT | UNIT | EST. | EST. | EST. | EST. | EST. | EST. | EST. | EST. |
| PAVING AND GRADING COSTS | UNIT | PRICE | QUANTITY | AMOUNT | QUANTITY | AMOUNT | QUANTITY | AMOUNT | QUANTITY | AMOUNT |
| 1 Excavation - common & subgrade | l ou va | CC 00 | | | | | * | | | |
| 2 Granular Borrow - Structural (CV) | cu. yd. cu. yd. | \$6.00 \$16.00 | 6,500 | \$104,000 | 4,700 | \$28,200 | 8,200 | \$49,200 | 12,900 52,000 10,200 7,700 | \$77,400 \$832,000 \$153,000 \$269,500 \$550,800 |
| 3 Granular Subgrade (CV) 4 Mainline Shoulder Pavement (5 Bituminous Walk / Trail () 6 Concrete Curb and Gutter | cu. yd. | \$15.00 | 0,000 | \$104,000 | 26,000 3,700 | \$416,000 \$55,500 | 19,500 6,500 | \$312,000 \$97,500 | 52,000 | \$832,000 |
| 4 Mainline Shoulder Pavement (| l) sq. yd. | \$35.00 | | | 2,800 | \$55,500 \$98,000 | 6,500 4,900 | \$171,500 | 7 700 | \$153,000 |
| 6 Concrete Curb and Gutter | 2) <u>sq. yd.</u> lin. ft. | \$27.00 \$15.00 | 1,900 | \$51,300 | 7,500 | \$202,500 | 11,000 | \$297,000 | 20,400 | \$550,800 |
| <u> 7 (Concrete Median Barrier (Permanent)</u> | lin. ft. | \$65.00 | | | 4,600 | \$299,000 | 4.000 | #070.000 | | l l |
| 8 Traffic Barrier | lin. ft. | \$20.00 | | | 4,000 | \$299,000 | 4,200 800 | \$273,000 \$16,000 | 8,800 | \$572,000 |
| CURTOTAL BANGNO AND COLOROS | | | | | | | 000 | Ψ10,000 | 800 | \$16,000 |
| SUBTOTAL PAVING AND GRADING COSTS | | 11 | | \$155,300 | | \$1,099,200 | | \$1,216,200 | | \$2,470,700 |
| DRAINAGE, UTILITIES AND EROSION CONTROL | | | | | | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | ΨΞ,Ψ1 0,1 00 |
| 1 Drainage - urban | 30% | | | \$47,000 | | \$330,000 | | \$365,000 | | \$742,000 |
| 2 Drainage - rural (3 3 Turf Establishment & Erosion Control | 8) mile 10% | \$100,000 | | 0.10.000 | | | 1.00 | \$365,000 \$100,000 | 1 | \$742,000 \$100,000 \$248,000 |
| 4 Landscaping | 2% | | | \$16,000 \$3,000 | | \$110,000 | | \$122,000 | | \$248,000 |
| SUBTOTAL DRAINAGE, UTILITIES AND ERC | SION CONTROL | | | \$66,000 | | \$22,000 | | \$24,000 | | \$49,000 |
| BRIDGE COSTS | OION OONTKOL | | | \$66,000 | | \$462,000 | | \$611,000 | | \$1,139,000 |
| 1 Bridge - Widening of Round Lake Bridge | sq. ft. | \$200 | | | 40.000 | | | | | |
| 2 Bridge - Widening of French Slough Bridge | sq. ft. | \$200 \$200 | | | 12,000 4,900 | \$2,400,000 | | | 12,000 | \$2,400,000 |
| 3 Bridge - Widening of Black River Bridge | sq. ft. | \$200 | | | 4,900 | \$980,000 | 15,300 | \$3,060,000 | 12,000 4,900 15,300 | \$980,000 |
| SUBTOTAL BRIDGE COSTS: | | | | | | \$3,380,000 | 15,500 | \$3,060,000 | 15,300 | \$3,060,000 |
| RETAINING WALLS & OTHER MINOR STRUCTURAL | | | | | φο,σσο,σσο | | \$3,000,000 | | \$6,440,000 | |
| 1 Box Culvert - Under CTH B | sq. ft. | \$200 | | | | | 2 400 | #400 000 II | 0.400 | |
| 2 CIP Ret. Walls 5' high (50' pile foundation) (4 |) lin. ft. | \$200 \$600 | 1,400 | \$840,000 | 100 | \$60,000 | 2,100 | \$420,000 \$60,000 | 2,100 1,600 | \$420,000 \$960,000 |
| 3 CIP Ret. Walls 10' high (50' pile foundation) (4 CIP Ret. Walls 15' high (50' pile foundation) (4 | | \$800 | 300 | \$240,000 | 400 | \$320,000 | 600 | \$480,000 | 1,300 | \$1 040 000 II |
| 4 CIP Ret. Walls 15' high (50' pile foundation) (2 5 CIP Ret. Walls 20' high (50' pile foundation) (2 | | \$1,200 \$1,750 | 200 150 | \$240,000 \$262,500 | | | | | 200 | \$240,000 \$262,500 \$96,000 \$120,000 |
| <u>6 ICIP Ret. Walls 25 high (50 pile foundation) 1 (4</u> | lin. ft. | \$2,400 | 40 | \$96,000 | | | | | 150 | \$262,500 |
| / CIP Ret. Walls 30' high (50' pile foundation) / (4 | lin. ft. | \$3,000 | 40 | \$120.000 | | | | | 40 40 | \$96,000 |
| 8 Ret. Walls Architectural Treatments (normal) | sq. ft. | \$15 | 18,200 | \$273,000 | 4,500 | \$67,500 | 6,500 | \$97,500 | 29,200 | \$438,000 |
| SUBTOTAL RETAINING WALLS & OTHER M | NOR STRUCTU | RAL COSTS: | | \$2,071,500 | | \$447,500 | | \$1,057,500 | 20,200 | \$3,576,500 |
| | *** | | | | <u> </u> | | | , ,, , , , , , , , , , , , , , , , , , , | | Ψο,οτο,οοο |
| SUBTOTAL CONSTRUCTION COSTS: | | | | \$2,292,800 | | \$5,388,700 | | \$5,944,700 | | ¢42.000.000 |
| | | | | 1 , , , , , , , , | | \$0,000,100 | | ψυ,υ44,100 | | \$13,626,200 |
| MISCELLANEOUS COSTS | | | | | | | | | | |
| 1 Mobilization | 5% | | Т | \$115,000 | | #260 000 | | 0007.007." | | |
| 2 Non Quantified Minor Items | 5% 10% | | | \$115,000 \$229,000 | | \$269,000 \$539,000 | | \$297,000 | | \$681,000 |
| 3 Traffic Control | 5% | | | \$115,000 | | \$269,000 | | \$297,000 \$594,000 \$297,000 | | \$681,000 \$1,362,000 \$681,000 |
| SUBTOTAL MISCELLANEOUS COSTS: | | | | A 4 7 2 2 2 2 2 | | | | | | ΨΟΟ 1,000 |
| | | | | \$459,000 | | \$1,077,000 | | \$1,188,000 | | \$2,724,000 |
| ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: | | | | \$2,751,800 | | \$6,465,700 | | \$7,132,700 | - | \$16,350,200 |
| 1 Contingency or "risk" | 30% | | | \$826,000 | | \$1,940,000 | | \$2,140,000 | | \$4,906,000 |
| ESTIMATED TOTAL CONSTRUCTION COSTS PLUS C | ONTINGENCY: | | | \$3,577,800 | | \$8,405,700 | | \$9,272,700 | | \$21,256,200 |

NOTE (1) Includes aggregate base class 5 and PASB or OGAB, as appropriate.
(2) Includes aggregate base class 5.
(3) Does not include pavement edge drains, see separate item.
(4) Assumes 50' Piled Foundations & Mn/DOT Standard Plan Sheet designs; does not include excavation or backfill.





Y:\Projects\7312\Design\CostEstimates\Bridge Trail Concept Estimates\Fewer Retaining Walls\BridgeTrail_Middle-South_ReducedWalls_ConceptCostEst_WISplits.xls



MN/WI BIKE TRAIL CONNECTION - MIDDLE-SOUTH OPTION - REDUCED WALLS Concept Cost Estimate (based upon 2011 bid price information) Prepared By: SRF Consulting Group, Inc., 9/2011

| | | | MINNE | | TO REST AREA) | | WISCONSIN (REST AREA TO EXIT 3) | | TOTAL | |
|---|----------------------|--------------------|------------|---|-------------------------|---|------------------------------------|---|-----------------|---|
| ITEM DECODIDATION | | UNIT | EST. | EST. | EST. | EST. | EST. | EST. | EST. | EST. |
| ITEM DESCRIPTION | UNIT | PRICE | QUANTITY | AMOUNT | QUANTITY | AMOUNT | QUANTITY | AMOUNT | QUANTITY | AMOUNT |
| PAVING AND GRADING COSTS | | | | | | 711100111 | Q0/IIIII | AWOUNT | | |
| 1 Excavation - common & subgrade | cu. yd. | \$6.00 | 500 | \$3,000 | 4,700 | \$28 200 | 6,700 | \$40.200 | 11,900 | Ф74 400 |
| 2 Granular Borrow - Structural (CV) 3 Granular Subgrade (CV) | cu. yd. | \$16.00 | 12,100 | \$193,600 | 17.800 | \$284,800 | 17,800 | \$284.800 | 47,700 | \$71,400 \$763,200 |
| 4 IIVIAININA Shouldar Pavamant I (1) | cu. yd. sq. yd. | \$14.00 \$35.00 | 400 300 | \$5,600 | 3,700 | \$28,200 \$284,800 \$51,800 \$98,000 | 5,300 | \$74,200 | 9,400 | \$131,600 |
| 5 Bituminous Walk / Trail (2) 6 Concrete Curb and Gutter 7 Concrete Median Barrier (Permanent) | sq. yd. | \$27.00 | 2,500 | \$10,500 \$67,500 | 3,700 2,800 6,600 | \$98,000 \$178,200 | 4,000 | \$40,200 \$284,800 \$74,200 \$140,000 \$337,500 | 7,100 | \$248,500 |
| 6 Concrete Curb and Gutter | lin. ft. | \$15.00 | 100 | \$1,500 | 0,000 | Φ170,200 | 12,500 700 | \$337,500 \$10,500 | 21,600 | <u>\$583,200</u> |
| 7 Concrete Median Barrier (Permanent) 8 Traffic Barrier | lin. ft. | \$65.00 | 300 | \$19,500 | 3,500 | \$227,500 | 3,500 | \$227,500 | 800 7,300 | \$12,000 \$474,500 |
| o ITallic Barrier | lin. ft. | \$20.00 | | | | ,==.,, | 500 | \$10,000 | 500 | \$71,400 \$763,200 \$131,600 \$248,500 \$583,200 \$12,000 \$474,500 \$10,000 |
| SUBTOTAL PAVING AND GRADING COSTS: | | | | ¢204.000 | | 4000 700 | | | 333 | |
| DRAINAGE, UTILITIES AND EROSION CONTROL | | | | \$301,200 | | \$868,500 | | \$1,124,700 | | \$2,294,400 |
| 1 Drainage - urban | 200/ | | | #00 000 II | | | 8 | | | |
| 2 Drainage - rural (3) | 30% mile | \$100,000 | | \$90,000 | | \$261,000 | | \$337,000 | | \$688,000 |
| 3 Turf Establishment & Erosion Control | mile 10% | \$100,000 | | \$30,000 | | ¢97,000 | 1.00 | \$100,000 | 1 | \$100.0ດົດັ |
| 4 Landscaping | 2% | | | \$6,000 | | \$87,000 \$17,000 | | \$112,000 \$22,000 | | \$229,000 |
| SUBTOTAL DRAINAGE, UTILITIES AND EROSIC | ON CONTROL | | | \$126,000 | | \$365,000 | | \$571,000 | | \$45,000 |
| BRIDGE COSTS | | | | VIII | | ψ303,000 | | \$571,000 | | \$1,062,000 |
| | sq. ft. | \$200 | | | 12,000 | ФО 400 000 II | | | | |
| Bridge - Widening of Round Lake Bridge Bridge - Widening of French Slough Bridge | sq. ft. | \$200 \$200 | | | 2,600 | \$2,400,000 \$520,000 | | | 12,000 2,600 | \$2,400,000 |
| 3 Bridge - Widening of Black River Bridge | sq. ft. | \$200 | | | 2,000 | Ψ320,000 | 15,500 | \$3,100,000 | 2,600 15,500 | \$2,400,000 \$520,000 \$3,100,000 |
| SUBTOTAL BRIDGE COSTS: | | | | | | \$2,920,000 | 10,000 | \$3,100,000 | 15,500 | \$3,100,000 |
| RETAINING WALLS & OTHER MINOR STRUCTURAL CO | OSTS | | | | | 72,020,000 | | ψ3,100,000 | | \$6,020,000 |
| 1 Box Culvert - Under CTH B | | \$200 | | | | | 2 100 | # 400 000 II | 0.400 | |
| 2 ICIP Ret. Walls 5' high (50' pile foundation) (4) | sq. ft. lin. ft. | \$600 | 200 | \$120,000 \$960,000 \$600,000 | 250 | \$150,000 | 2,100 | \$420,000 \$150,000 | 2,100 | \$420,000 \$420,000 |
| 3 CIP Ret. Walls 10' high (50' pile foundation) (4) | lin. ft. | \$800 | 1,200 | \$960,000 | 250 550 | \$150,000 \$440,000 | 250 550 | \$440,000 | 700 2,300 | \$420,000 |
| 4 CIP Ret. Walls 15' high (50' pile foundation) (4) 5 CIP Ret. Walls 20' high (50' pile foundation) (4) 6 CIP Ret. Walls 25' high (50' pile foundation) (4) | lin. ft. lin. ft. | \$1,200 \$1,750 | 500 | \$600,000 | | | | Ψ110,000 | 500 | \$1,840,000 \$1,840,000 \$600,000 \$175,000 \$96,000 \$120,000 |
| 6 CIP Ret. Walls 25' high (50' pile foundation) (4) | lin. ft. | \$2,400 | 100 40 | \$175,000 | | | | | 100 | \$175,000 |
| <u> </u> | lin. ft. | \$3,000 | 40 | \$175,000 \$96,000 \$120,000 | | | | | 40 | \$96,000 |
| 8 Ret. Walls Architectural Treatments (normal) | sq. ft. | \$15 | 24,700 | \$370,500 | 6,750 | \$101,250 | 6,750 | \$101,250 | 38,200 | <u>\$120,000</u> |
| SUBTOTAL RETAINING WALLS & OTHER MINO | R STRUCTUR | AL COSTS: | | \$2,441,500 | 51.55 | \$691,250 | 0,730 | \$1,111,250 | 30,200 | \$573,000 |
| | | | L. | . , , , , , , , , , , , , , , , , , , , | | 4001,200 | | \$1,111,250 | | \$4,244,000 |
| SUBTOTAL CONSTRUCTION COSTS: | | | | \$2,868,700 | | ¢4.044.7E0 | | A | | |
| | | | | \$2,000,700 | | \$4,844,750 | | \$5,906,950 | | \$13,620,400 |
| MISCELLANEOUS COSTS | | | | | | | | | _ | |
| 1 Mobilization | F0/ | , 11 | | | | | • | | | |
| 2 Non Quantified Minor Items | 5% 10% 5% | | | \$143,000 \$287,000 | | \$242,000 \$484,000 \$242,000 | | \$295,000 | | \$680,000 |
| 3 Traffic Control | 5% | | | \$287,000 \$143,000 | | \$484,000 | | \$295,000 \$591,000 \$295,000 | | \$1,362,000 |
| | 5 /0 | | | Ψ143,000 | | ⊅∠4∠,000 | | \$295,000 | | \$680,000 \$1,362,000 \$680,000 |
| SUBTOTAL MISCELLANEOUS COSTS: | | \$573,000 | | \$968,000 | | \$1,181,000 | | | | |
| ESTIMATED TOTAL CONSTRUCTION COSTS without Contingency: | | | - | \$3,441,700 | | \$5,812,750 | | \$7,087,950 | | \$2,722,000 |
| 1 Contingency or "risk" | 30% | | | \$1,033,000 | | \$1,744,000 | | \$2,126,000 | | \$16,342,400 |
| ESTIMATED TOTAL CONSTRUCTION COSTS PLUS CON | - | \$4,474,700 | | \$7,556,750 | | \$9,213,950 | | \$4,903,000 \$21,245,400 | | |

NOTE (1) Includes aggregate base class 5 and PASB or OGAB, as appropriate.
(2) Includes aggregate base class 5.
(3) Does not include pavement edge drains, see separate item.
(4) Assumes 50' Piled Foundations & Mn/DOT Standard Plan Sheet designs; does not include excavation or backfill.

DOES NOT INCLUDE RIVER Bridge COSTS.